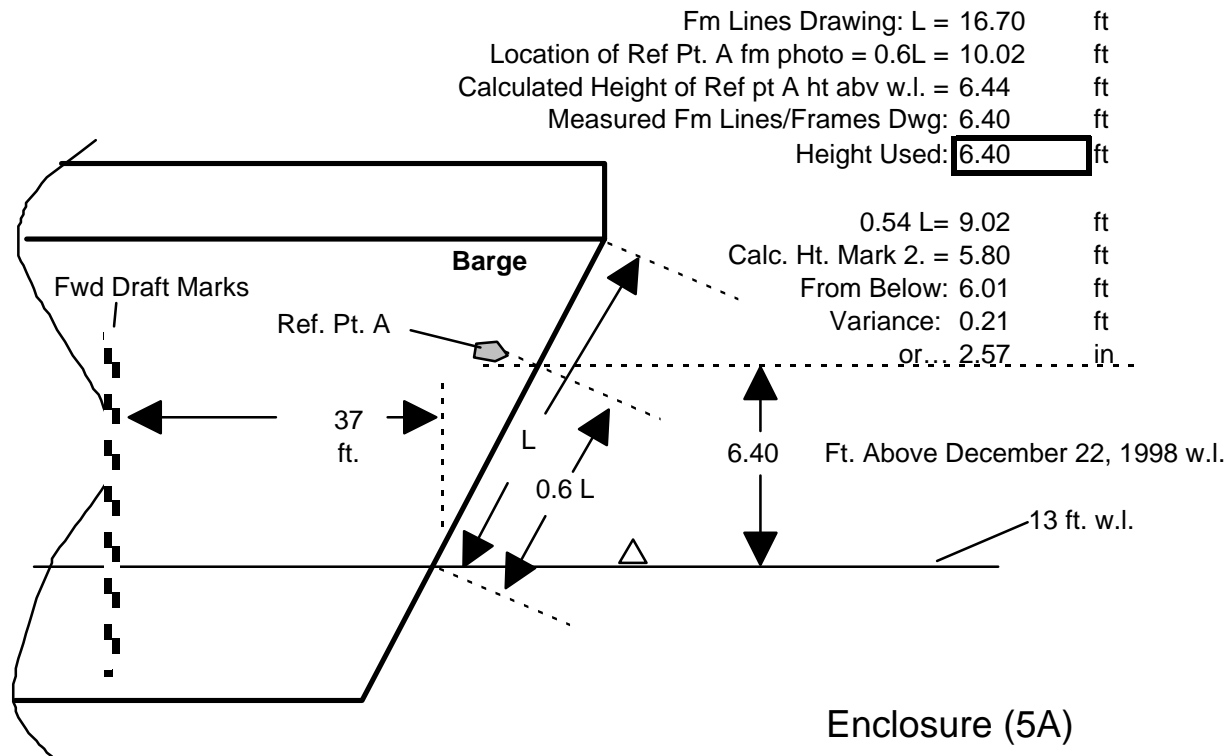


Dimensional Analysis of Bow Marks on Barge GREAT LAKES

Based Upon Drafts as measured on December 22, 1998

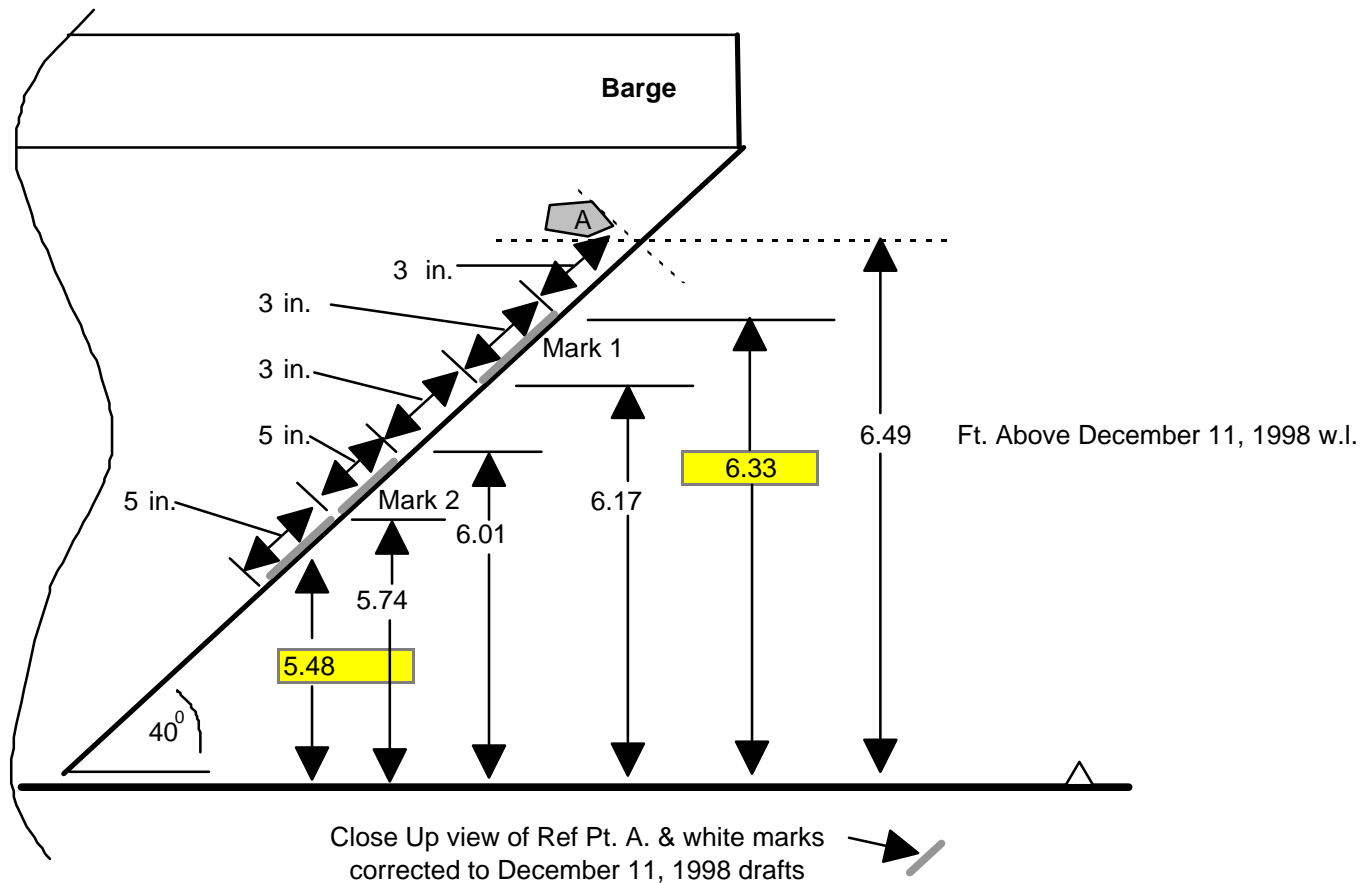
Aft Draft (Ft.)	Fwd Draft (Ft.)	Trim (in.)	Len btw'n Marks (Ft.)	Trim/L Ratio (in./Ft.)	Dist. fwd of Draft Mark (Ft.)	Delta from Fwd Draft Mark (in)	Draft at bow/w.l. (Ft)	Diff from 13' w.l. draft (in)
14.00	13.08	11	320	0.0344	37	1.27	12.98	0.27

(negligible)



Based Upon Drafts as Record on December 11, 1998

Aft Draft (Ft.)	Fwd Draft (Ft.)	Trim (in.)	Len btw'n Marks (Ft.)	Trim/L Ratio (in./Ft.)	Dist. fwd of Draft Mark (Ft.)	Delta from Fwd Draft Mark (in)	Draft at bow/w.l. (Ft)	Corr. fm 22 Dec draft (in)
14.00	13.00	12	320	0.0375	37	1.39	12.88	1.12



Enclosure (5B)